

# The MINERvA Operations Report

## All Experimenters Meeting

Howard Budd, University of Rochester

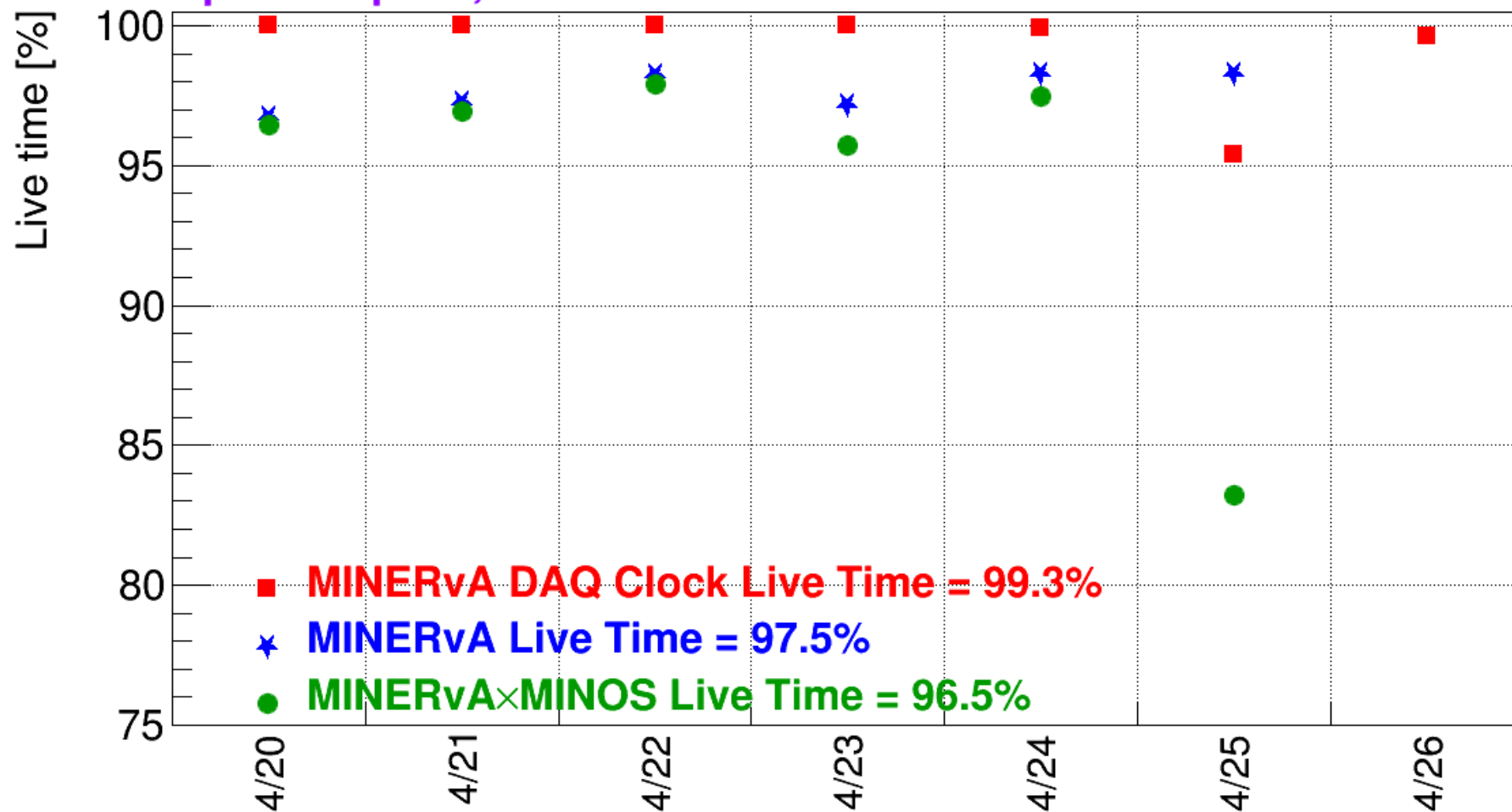
May 1, 2017



# $\nu$ Data



Apr 20 - Apr 26, 2017: POT Delivered =  $1.22 \times 10^{19}$





# $\nu$ Data



- Apr 25 – 84.7% MINOS live
  - MINOS DAQ went down. Only ~ 4 hours of beam so MINOS as brought up fairly quickly



# v Data



- MINOS Magnet
  - MINOS Magnet tripped Apr 30 ~ 5 AM. Steve Hahn and Walt Jaskierny reset the breaker and got the magnet running ~ 8 AM.
    - Walt suggested it might be due to the heavy rain over the weekend filling up the conduit which holds the cables.
    - There are 4 cables taking power from the upstairs breaker to downstairs. Only 2 are needed. Steve Chappa and Walt Jaskierny disconnect 2 of them in the MINOS hall. This helped. However, since they are still connected upstairs, they are still energized.
    - The Magnet run for ~ 12 day in this configuration, until this trip
  - The magnet tripped again ~ mid-night Apr 30. Steve Hahn reset the breaker and got the magnet running Mar 1 ~ 11 AM. The magnet tripped ~ ½ hour later.

Average Jobs Running Concurrently

1790

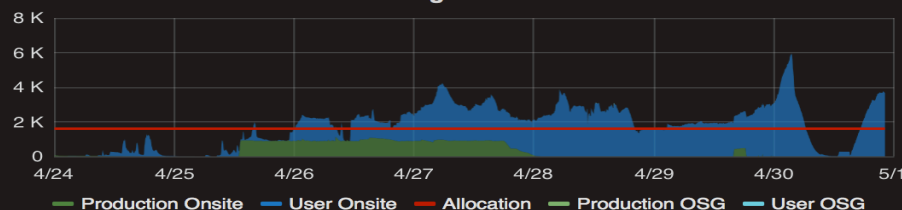
Total Jobs Run

104946

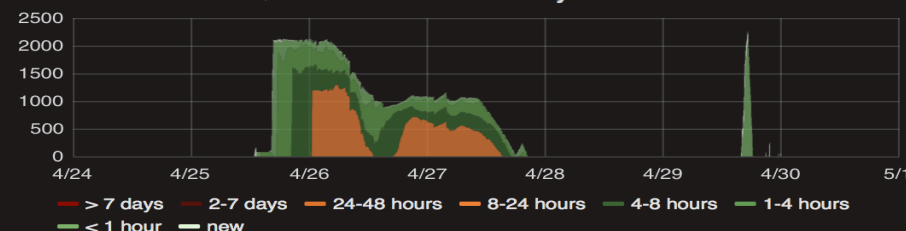
Average Time Spent Waiting in Queue (Production)

5.84 hour

Running Batch Jobs



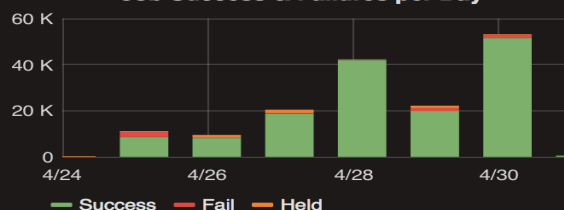
Queued Production Jobs by Wait Time



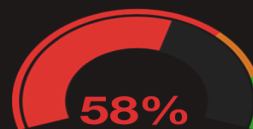
Job Success Rate



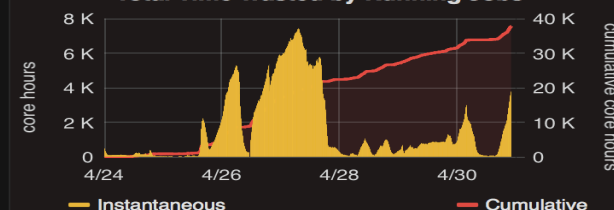
Job Success &amp; Failures per Day



Overall CPU Efficiency



Total Time Wasted by Running Jobs



New Data Cataloged

0.5 TB

Total Data Cataloged

1.6 PB

- 04/24/2017 - 04/30/2017
- Average concurrent jobs are ~1800
- Job Success rate is good ( Small fraction of analyzers' jobs was held mostly due to the time limit)
- Overall CPU Efficiency is low due to MINOS DB issue of the production jobs
  - MINOS DB was migrated into MariaDB and the validation study was done last week → Start using MariaDB for Production job from now